

APPLICANT(S): GINZBURG, Boris et al.
SERIAL NO.: 10/673,205
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AMENDMENTS TO THE CLAIMS

The following listing of claims is intended to replace all prior versions and/or listings of claims in the application. Please add or amend the claims to read as follows, and cancel without prejudice claims indicated as cancelled.

LISTING OF CLAIMS

1. **(Currently Amended)** A method of selecting channels, the method comprising:
identifying a plurality of channels ~~[[used]]~~ useable for transmissions in an area; and
scanning said ~~[[identified]]~~ plurality of channels according to a scanning order associated with said area, to find a channel being currently used for transmissions in the area.
2. **(Original)** A method as in claim 1, comprising identifying a wireless basic service set operating in said area.
3. **(Currently Amended)** A method as in claim 2, wherein ~~[[said]]~~ identifying said wireless basic service set comprises assuming ~~[[a]]~~ said service set ~~is a same service set with which a station has been~~ recently associated with.
4. **(Original)** A method as in claim 1, comprising identifying a basic service set operating in said area.
5. **(Currently Amended)** A method as in claim 1, wherein ~~[[said]]~~ identifying comprises referring to a list of at least one channel previously used for transmissions in said area.
6. **(Original)** A method as in claim 1, comprising selecting a channel upon which to associate.
7. **(Currently Amended)** A method as in claim 6, wherein ~~[[said]]~~ selecting includes at least evaluating a quality of transmission of at least one of said ~~[[identified]]~~ plurality of channels.
8. **(Currently Amended)** A method as in claim 1, comprising updating a list of channels ~~[[used]]~~ useable for transmissions ~~by transmitting devices~~ in said area with data collected in a scan of said plurality of identified channels.
9. **(Original)** A method as in claim 1, comprising updating a list of service sets with service sets that are identified during said scanning.

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10. **(Currently Amended)** A method as in claim 1, comprising ~~[[ordering]]~~ updating said scanning order said identified channels based on data collected about said plurality of channels.
11. **(Currently Amended)** A wireless communication device comprising:
a memory to store data about ~~at least one~~ a plurality of ~~[[channel]]~~ channels used by transmitters usable for transmissions in ~~associated with~~ an area; and
a processor to select at least one of said plurality of channels for scanning ~~said at least one channel~~ according to a scanning order associated with said area.
12. **(Original)** A device as in claim 11, wherein said processor is to detect a service set and select at least one channel used for transmissions with said service set.
13. **(Original)** A device as in claim 11, wherein said processor is to detect a basic service set operating in said area and to select at least one channel used for transmissions in an area of said basic service set.
14. **(Original)** A device as in claim 11, wherein said memory is to store data about channels used for transmissions with at least one service set.
15. **(Original)** A device as in claim 11, wherein said memory is to store data about transmitters in an area of a basic service set.
16. **(Original)** A device as in claim 11, wherein said processor is to select an access point for association based on a quality of transmission with said access point.
17. **(Original)** A device as in claim 11, wherein said processor is to update said memory with data collected in said scanning.
18. **(Original)** A device as in claim 11, wherein said processor is to order for scanning said at least one selected channel based on data collected in past associations on said at least one selected channel.
19. **(Currently Amended)** An article comprising a storage medium having stored thereon instructions that, when executed by a processor, result in:
identifying a plurality of channels useable for transmissions in an area ~~to be scanned in an area~~; and
scanning said ~~[[identified]]~~ plurality of channels according to a scanning order associated with said area, to find a channel being currently used for transmissions in the area.

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20. (Original) An article as in claim 19, wherein said execution of said instructions further result in updating a table of said identified channels with data collected during a scan.
21. (Original) An article as in claim 19, wherein said execution of said instructions further result in ordering said identified channels for scanning based on data collected on said channels.
22. (Currently Amended) A communication device comprising:
a dipole antenna;
a controller to identify a plurality of channels ~~[[used]]~~ useable for transmissions in an area; and
a memory to store data about said plurality of channels ~~at least one channel used by transmitters in said area; and~~
a processor to select at least one of said plurality of channels for scanning according to a scanning order associated with said area, to a channel being currently used for transmissions in the area.
23. (Original) A communication device as in claim 22, wherein said controller is to detect a service set operating in said area and select at least one channel used for transmissions with said service set.
24. (Currently Amended) A communication device as in claim 22, wherein said controller is to update a table of channels with data collected ~~[[in]]~~ during a scan.
25. (Currently Amended) A communication system comprising:
a station;
an access point;
a controller to identify at least one ~~[[channels]]~~ channel to be scanned in an area from among a plurality of channels upon which said access point transmits; and
a memory to store data about ~~at least one channel used by transmitters~~ said plurality of channels useable for transmissions in said area, wherein said data includes at least a scanning order associated with said area.
26. (Original) A communication system as in claim 25, wherein said controller is used to detect a service set in said area.
27. (Original) A communication system as in claim 25, wherein said controller is to update a table of said identified channels with data collected on said at least one channel.